

## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> DESC Emp

Name	Null?
Type	
-----	-----
EMPNO	NOT
NULL NUMBER(4)	
ENAME	
VARCHAR2(10)	
JOB	
VARCHAR2(9)	
MGR	
NUMBER(4)	
HIREDATE	
DATE	
SAL	
NUMBER(7,2)	
COMM	
NUMBER(7,2)	
DEPTNO	NOT
NULL NUMBER(2)	

SQL> DECLARE

```
2  CURSOR EmpRefCursor
3  IS SELECT Ename FROM Emp;
4  V_Ename Emp.Ename%TYPE;
5  BEGIN
6  OPEN EmpRefCursor;
7  LOOP
8      FETCH EmpRefCursor INTO V_Ename;
9      EXIT WHEN EmpRefCursor%NOTFOUND;
10     DBMS_OUTPUT.PUT_LINE('Employee Number
'||TO_CHAR(EmpRefCursor%ROWCOUNT, '09')||' : '||V_Ename);
11 END LOOP;
12 CLOSE EmpRefCursor;
13 END;
14 /
```

```
Employee Number 01 : KING
Employee Number 02 : BLAKE
Employee Number 03 : CLARK
Employee Number 04 : JONES
Employee Number 05 : MARTIN
Employee Number 06 : ALLEN
Employee Number 07 : TURNER
Employee Number 08 : JAMES
Employee Number 09 : WARD
```

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---

```
Employee Number 10 : FORD
Employee Number 11 : SMITH
Employee Number 12 : SCOTT
Employee Number 13 : ADAMS
Employee Number 14 : MILLER
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  TYPE EmpRefCursor
3  IS REF CURSOR;
4  V_EmpRefCursor EmpRefCursor;
5  V_Ename Emp.Ename%TYPE;
6  BEGIN
7  OPEN V_EmpRefCursor
8  FOR
9  SELECT Ename FROM Emp;
10 LOOP
11     FETCH V_EmpRefCursor INTO V_Ename;
12     EXIT WHEN V_EmpRefCursor%NOTFOUND;
13     DBMS_OUTPUT.PUT_LINE('Employee Number
'||TO_CHAR(V_EmpRefCursor%ROWCOUNT, '09')||' : '||V_Ename);
14 END LOOP;
15 CLOSE V_EmpRefCursor;
16* END;
SQL> /
```

```
Employee Number 01 : KING
Employee Number 02 : BLAKE
Employee Number 03 : CLARK
Employee Number 04 : JONES
Employee Number 05 : MARTIN
Employee Number 06 : ALLEN
Employee Number 07 : TURNER
Employee Number 08 : JAMES
Employee Number 09 : WARD
Employee Number 10 : FORD
Employee Number 11 : SMITH
Employee Number 12 : SCOTT
Employee Number 13 : ADAMS
Employee Number 14 : MILLER
```

PL/SQL procedure successfully completed.

SQL> cl scr

---

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SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_RowCount NUMBER(4);
3  TYPE GenericCursor
4  IS REF CURSOR;
5  V_GenericCursor GenericCursor;
6  V_EmpRecord Emp%ROWTYPE;
7  BEGIN
8  OPEN V_GenericCursor
9  FOR
10 SELECT * FROM Emp;
11 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
12 80, '*'));
12 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
13 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)||RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
14 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
15 LOOP
16     FETCH V_GenericCursor INTO V_EmpRecord;
17     EXIT WHEN V_GenericCursor%NOTFOUND;
18     V_RowCount := V_GenericCursor%ROWCOUNT;
19 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecord.Empno, 8)
||RPAD(V_EmpRecord.Ename, 12)||RPAD(V_EmpRecord.Job,
12)||RPAD(V_EmpRecord.Deptno, 8)||NVL(TO_CHAR(RPAD(V_EmpRecord.MGR,
10)), 'No Manager')||RPAD(V_EmpRecord.Hiredate, 12)||RPAD(V_EmpRecord.Sal,
12)||NVL(TO_CHAR(RPAD(V_EmpRecord.Comm, 12)), '-NA-'));
20 END LOOP;
21 CLOSE V_GenericCursor;
22 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
23* END;
```

SQL> /

\*\*\*\*\*Employees  
Information\*\*\*\*\*

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No Manager	17-NOV-81	5000
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
7782	CLARK	MANAGER	10	7839	09-JUN-81	2450

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```
.....
7566      JONES      MANAGER      20      7839      02-APR-81      2975
-NA-
7654      MARTIN     SALESMAN     30      7698      28-SEP-81      1250
1400
7499      ALLEN      SALESMAN     30      7698      20-FEB-81      1600
300
7844      TURNER     SALESMAN     30      7698      08-SEP-81      1500
0
7900      JAMES      CLERK        30      7698      03-DEC-81      950
-NA-
7521      WARD        SALESMAN     30      7698      22-FEB-81      1250
500
7902      FORD        ANALYST      20      7566      03-DEC-81      3000
-NA-
7369      SMITH        CLERK        20      7902      17-DEC-80      800
-NA-
7788      SCOTT        ANALYST      20      7566      09-DEC-82      3000
-NA-
7876      ADAMS        CLERK        20      7788      12-JAN-83      1100
-NA-
7934      MILLER       CLERK        10      7782      23-JAN-82      1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_RowCount NUMBER(4);
3  V_TypeTable VARCHAR2(30) := UPPER('&GiveTable');
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  V_EmpRecord Emp%ROWTYPE;
8  V_DeptRecord Dept%ROWTYPE;
9  V_SalGradeRecord SalGrade%ROWTYPE;
10 BEGIN
11 IF V_TypeTable = 'EMP' THEN
12 OPEN V_GenericCursor
13 FOR
14 SELECT * FROM Emp;
15 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
16 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
```

---

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---

```
17 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
18 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
19 LOOP
20     FETCH V_GenericCursor INTO V_EmpRecord;
21     EXIT WHEN V_GenericCursor%NOTFOUND;
22     V_RowCount := V_GenericCursor%ROWCOUNT;
23 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecord.Empno, 8)
||RPAD(V_EmpRecord.Ename, 12)||RPAD(V_EmpRecord.Job,
12)||RPAD(V_EmpRecord.Deptno, 8)||NVL(TO_CHAR(RPAD(V_EmpRecord.MGR,
10)), 'No Manager')||RPAD(V_EmpRecord.Hiredate, 12)||RPAD(V_EmpRecord.Sal,
12)||NVL(TO_CHAR(RPAD(V_EmpRecord.Comm, 12)), '-NA-'));
24 END LOOP;
25 CLOSE V_GenericCursor;
26 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
27 ELSE
28 IF V_TypeTable = 'DEPT' THEN
29 OPEN V_GenericCursor
30 FOR
31 SELECT * FROM Dept;
32 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Department Information', 29, '*'),
49, '*'));
33 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
34 DBMS_OUTPUT.PUT_LINE(RPAD('Deptno', 8)|| RPAD('Dname',
12)||RPAD('Loc', 12));
35 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
36 LOOP
37 FETCH V_GenericCursor INTO V_DeptRecord;
38 EXIT WHEN V_GenericCursor%NOTFOUND;
39 V_RowCount := V_GenericCursor%ROWCOUNT;
40 DBMS_OUTPUT.PUT_LINE(RPAD(V_DeptRecord.Deptno, 8)
||RPAD(V_DeptRecord.Dname, 12)||RPAD(V_DeptRecord.Dname, 12));
41 END LOOP;
42 CLOSE V_GenericCursor;
43 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
44 ELSE
45 IF V_TypeTable = 'SALGRADE' THEN
46 OPEN V_GenericCursor
47 FOR
48 SELECT * FROM SalGrade;
49 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Salary Grade Information',
29, '*'), 49, '*'));
50 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
51 DBMS_OUTPUT.PUT_LINE(RPAD('Grade', 8)|| RPAD('LoSal',
12)||RPAD('HiSal', 12));
52 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
53 LOOP
```

---

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```
54      FETCH V_GenericCursor INTO V_SalGradeRecord;
55      EXIT WHEN V_GenericCursor%NOTFOUND;
56      V_RowCount := V_GenericCursor%ROWCOUNT;
57      DBMS_OUTPUT.PUT_LINE(RPAD(V_SalGradeRecord.Grade, 8)
||RPAD(V_SalGradeRecord.LoSal, 12)||RPAD(V_SalGradeRecord.HiSal, 12));
58      END LOOP;
59      CLOSE V_GenericCursor;
60      DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So
Far...');
61      ELSE
62      DBMS_OUTPUT.PUT_LINE('Sorry You Either Do Not Have
Permissions on The Table OR The Requested Table Does Not Exist ');
63      END IF;
64  END IF;
65  END IF;
66* END;
SQL> /
```

```
Enter value for givetable: Emp
*****Employees
Information*****
```

EmpNo Comm	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839 -NA-	KING	PRESIDENT	10	No Manager	17-NOV-81	5000
7698 -NA-	BLAKE	MANAGER	30	7839	01-MAY-81	2850
7782 -NA-	CLARK	MANAGER	10	7839	09-JUN-81	2450
7566 -NA-	JONES	MANAGER	20	7839	02-APR-81	2975
7654 1400	MARTIN	SALESMAN	30	7698	28-SEP-81	1250
7499 300	ALLEN	SALESMAN	30	7698	20-FEB-81	1600
7844 0	TURNER	SALESMAN	30	7698	08-SEP-81	1500
7900 -NA-	JAMES	CLERK	30	7698	03-DEC-81	950
7521 500	WARD	SALESMAN	30	7698	22-FEB-81	1250
7902 -NA-	FORD	ANALYST	20	7566	03-DEC-81	3000
7369 -NA-	SMITH	CLERK	20	7902	17-DEC-80	800

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```
.....
7788      SCOTT      ANALYST      20      7566      09-DEC-82      3000
-NA-
7876      ADAMS      CLERK        20      7788      12-JAN-83      1100
-NA-
7934      MILLER     CLERK        10      7782      23-JAN-82      1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givetable: Dept
*****Department Information*****
```

```
-----
Deptno   Dname      Loc
-----
10        ACCOUNTING ACCOUNTING
20        RESEARCH   RESEARCH
30        SALES      SALES
40        OPERATIONS OPERATIONS
4 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givetable: SalGrade
*****Salary Grade Information*****
```

```
-----
Grade    LoSal      HiSal
-----
1         700      1200
2        1201      1400
3        1401      2000
4        2001      3000
5        3001      9999
5 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> ED
Write file afiedt.buf
```

```
1  DECLARE
2  V_RowCount NUMBER(4);
3  TYPE GenericCursor
4  IS REF CURSOR;
```

---

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```
5  V_GenericCursor GenericCursor;
6  TYPE TablesRecordType IS RECORD
7  (
8      EmpRecord Emp%ROWTYPE
9  );
10 V_EmpRecordType TablesRecordType;
11 BEGIN
12 DBMS_OUTPUT.ENABLE(1000000);
13 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '-'),
80, '*'));
14 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
15 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)||RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
16 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
17 FOR LoopIndex IN
18 (
19     SELECT Deptno, Dname
20     FROM Dept
21 )
22 LOOP
23     OPEN V_GenericCursor
24     FOR
25     SELECT *
26     FROM Emp
27     WHERE Deptno = LoopIndex.Deptno;
28     DBMS_OUTPUT.PUT_LINE('-----');
29     DBMS_OUTPUT.PUT_LINE('Now Printing The Employees of Department :
'||LoopIndex.Dname);
30     DBMS_OUTPUT.PUT_LINE('-----');
31     V_RowCount := 0;
32     LOOP
33         FETCH V_GenericCursor INTO V_EmpRecordType.EmpRecord;
34         EXIT WHEN V_GenericCursor%NOTFOUND;
35         V_RowCount := V_GenericCursor%ROWCOUNT;
36         DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecordType.EmpRecord.Empno, 8)
||RPAD(V_EmpRecordType.EmpRecord.Ename,
12)||RPAD(V_EmpRecordType.EmpRecord.Job,
12)||RPAD(V_EmpRecordType.EmpRecord.Deptno,
8)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.MGR, 10)), 'No
Manager')||RPAD(V_EmpRecordType.EmpRecord.Hiredate,
12)||RPAD(V_EmpRecordType.EmpRecord.Sal,
12)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.Comm, 12)), '-NA-'));
37     END LOOP;
38     CLOSE V_GenericCursor;
39     DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
```

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```
40 END LOOP;
41* END;
SQL> /
```

```
*****Employees
Information*****
```

```
-----
EmpNo   Ename      Job          Deptno  Mgr      Hiredate    Sal
Comm
-----
-----
```

```
Now Printing The Employees of Department : ACCOUNTING
```

```
-----
7839     KING        PRESIDENT    10      No Manager 17-NOV-81   5000
-NA-
7782     CLARK         MANAGER      10      7839      09-JUN-81   2450
-NA-
7934     MILLER        CLERK        10      7782      23-JAN-82   1300
-NA-
3 Rows Processed So Far...
```

```
Now Printing The Employees of Department : RESEARCH
```

```
-----
7566     JONES         MANAGER      20      7839      02-APR-81   2975
-NA-
7902     FORD          ANALYST      20      7566      03-DEC-81   3000
-NA-
7369     SMITH         CLERK        20      7902      17-DEC-80   800
-NA-
7788     SCOTT         ANALYST      20      7566      09-DEC-82   3000
-NA-
7876     ADAMS         CLERK        20      7788      12-JAN-83   1100
-NA-
5 Rows Processed So Far...
```

```
Now Printing The Employees of Department : SALES
```

```
-----
7698     BLAKE         MANAGER      30      7839      01-MAY-81   2850
-NA-
7654     MARTIN        SALESMAN     30      7698      28-SEP-81   1250
1400
```

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```
.....
7499      ALLEN      SALESMAN      30      7698      20-FEB-81      1600
300
7844      TURNER     SALESMAN      30      7698      08-SEP-81      1500
0
7900      JAMES      CLERK         30      7698      03-DEC-81      950
-NA-
7521      WARD        SALESMAN      30      7698      22-FEB-81      1250
500
6 Rows Processed So Far...
```

```
-----
Now Printing The Employees of Department : OPERATIONS
-----
```

```
-----
0 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```

1  DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT Ename, Sal
5  FROM Emp;
6  TYPE EmpCursorTableType
7  IS TABLE OF
8  EmpCursor%ROWTYPE
9  INDEX BY BINARY_INTEGER;
10 V_EmpTableType EmpCursorTableType;
11 BEGIN
12 IF NOT EmpCursor%ISOPEN
13 THEN
14 OPEN EmpCursor;
15 ELSE
16 DBMS_OUTPUT.PUT_LINE('Cursor is Already Open Proceed With Result Set
Operation''s.');
```

```
17 END IF;
18 DECLARE
19 V_TableIndex PLS_INTEGER := 0;
20 BEGIN
21 DBMS_OUTPUT.PUT_LINE('Loading The Data From Context Area into PL/SQL
Tables Please Wait...');
```

```
22 LOOP
```

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---

```
23  FETCH EmpCursor INTO  V_EmpTableType(V_TableIndex).Ename,
V_EmpTableType(V_TableIndex).Sal;
24  EXIT WHEN EmpCursor%NOTFOUND OR EmpCursor%NOTFOUND IS NULL;
25  V_TableIndex := V_TableIndex + 1;
26  END LOOP;
27  DBMS_OUTPUT.PUT_LINE('Loading The Data into PL/SQL Tables is Done
Successfully...');
28  END;
29  BEGIN
30  DBMS_OUTPUT.PUT_LINE('Displaying The Data From The PL/SQL
Table...Please Wait...');
31  FOR IndexVariable IN V_EmpTableType.FIRST .. V_EmpTableType.LAST
32  LOOP
33  DBMS_OUTPUT.PUT_LINE(V_EmpTableType(IndexVariable).Ename || ' is
Fixed With A Salary of ' || V_EmpTableType(IndexVariable).Sal);
34  END LOOP;
35  DBMS_OUTPUT.PUT_LINE('Displaying The Data From The PL/SQL Table Was
Sucessfull...');
36  DBMS_OUTPUT.PUT_LINE('The Total Records Processed Are
'||V_EmpTableType.COUNT);
37  END;
38* END;
SQL> /
```

Loading The Data From Context Area into PL/SQL Tables Please Wait...

Loading The Data into PL/SQL Tables is Done Successfully...

Displaying The Data From The PL/SQL Table...Please Wait...

KING is Fixed With A Salary of 5000

BLAKE is Fixed With A Salary of 2850

CLARK is Fixed With A Salary of 2450

JONES is Fixed With A Salary of 2975

MARTIN is Fixed With A Salary of 1250

ALLEN is Fixed With A Salary of 1600

TURNER is Fixed With A Salary of 1500

JAMES is Fixed With A Salary of 950

WARD is Fixed With A Salary of 1250

FORD is Fixed With A Salary of 3000

SMITH is Fixed With A Salary of 800

SCOTT is Fixed With A Salary of 3000

ADAMS is Fixed With A Salary of 1100

MILLER is Fixed With A Salary of 1300

Displaying The Data From The PL/SQL Table Was Sucessfull...

The Total Records Processed Are 14

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

---

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---

```
2  TYPE EmpTableType
3  IS TABLE OF
4  Emp%ROWTYPE;
5  V_EmpTableType EmpTableType;
6  BEGIN
7  SELECT * INTO V_EmpTableType
8  FROM Emp;
9  FOR IndexVariable IN V_EmpTableType.FIRST .. V_EmpTableType.LAST
10 LOOP
11 DBMS_OUTPUT.PUT_LINE(V_EmpTableType(IndexVariable).Ename || ' is
Fixed With A Salary of ' || V_EmpTableType(IndexVariable).Sal);
12 END LOOP;
13 END;
14 /
SELECT * INTO V_EmpTableType
*
```

ERROR at line 7:

ORA-06550: line 7, column 15:

PLS-00642: local collection types not allowed in SQL statements

ORA-06550: line 7, column 30:

PL/SQL: ORA-00947: not enough values

ORA-06550: line 7, column 1:

PL/SQL: SQL Statement ignored

SQL> DECLARE

```
2  TYPE EmpTableType
3  IS TABLE OF
4  Emp%ROWTYPE;
5  V_EmpTableType EmpTableType;
6  BEGIN
7  SELECT * BULK COLLECT INTO V_EmpTableType
8  FROM Emp;
9  FOR IndexVariable IN V_EmpTableType.FIRST .. V_EmpTableType.LAST
10 LOOP
11 DBMS_OUTPUT.PUT_LINE(V_EmpTableType(IndexVariable).Ename || ' is
Fixed With A Salary of ' || V_EmpTableType(IndexVariable).Sal);
12 END LOOP;
13 END;
14
```

```
KING is Fixed With A Salary of 5000
BLAKE is Fixed With A Salary of 2850
CLARK is Fixed With A Salary of 2450
JONES is Fixed With A Salary of 2975
MARTIN is Fixed With A Salary of 1250
ALLEN is Fixed With A Salary of 1600
TURNER is Fixed With A Salary of 1500
JAMES is Fixed With A Salary of 950
```

---

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---

WARD is Fixed With A Salary of 1250  
FORD is Fixed With A Salary of 3000  
SMITH is Fixed With A Salary of 800  
SCOTT is Fixed With A Salary of 3000  
ADAMS is Fixed With A Salary of 1100  
MILLER is Fixed With A Salary of 1300

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  TYPE MyArray IS
  3  TABLE OF
  4  Emp%ROWTYPE;
  5  V_MyArray MyArray;
  6  TYPE GenericCursor
  7  IS REF CURSOR;
  8  V_GenericCursor GenericCursor;
  9  BEGIN
 10  OPEN V_GenericCursor FOR
 11  SELECT *
 12  FROM Emp;
 13  FETCH V_GenericCursor BULK COLLECT INTO V_MyArray;
 14  CLOSE V_GenericCursor;
 15  FOR LoopIndex IN 1 .. V_MyArray.Count
 16  LOOP
 17  DBMS_OUTPUT.PUT_LINE( TO_CHAR(LoopIndex, '09') || ' ' ||
V_MyArray(LoopIndex).Ename );
 18  END LOOP;
 19  END;
 20  /
01) KING
02) BLAKE
03) CLARK
04) JONES
05) MARTIN
06) ALLEN
07) TURNER
08) JAMES
09) WARD
10) FORD
11) SMITH
12) SCOTT
13) ADAMS
14) MILLER
```

PL/SQL procedure successfully completed.

SQL> cl scr

---

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---

```
SQL> DECLARE
  2     V_Empno Emp.Empno%TYPE := &Empno;
  3     V_Ename Emp.Ename%TYPE;
  4     V_Sal Emp.Sal%TYPE;
  5 BEGIN
  6     SELECT Ename, Sal INTO V_Ename, V_Sal
  7     FROM Emp
  8     WHERE Empno = V_Empno;
  9     DBMS_OUTPUT.PUT_LINE('Name : '||V_Ename||' Salary : '||V_Sal);
 10 END;
 11 /
```

Enter value for empno: 7839

Name : KING Salary : 5000

PL/SQL procedure successfully completed.

```
SQL> /
```

Enter value for empno: 7566

Name : JONES Salary : 2975

PL/SQL procedure successfully completed.

```
SQL> /
```

Enter value for empno: 7788

Name : SCOTT Salary : 3000

PL/SQL procedure successfully completed.

```
SQL> /
```

Enter value for empno: 2234

```
DECLARE
```

```
*
```

ERROR at line 1:

ORA-01403: no data found

ORA-06512: at line 6

```
SQL> ED
```

Wrote file afiedt.buf

```
1  SELECT Ename, Sal
```

```
2  FROM Emp
```

```
3* WHERE Empno = &V_Empno
```

```
SQL> /
```

Enter value for v\_empno: 7788

ENAME

SAL

---

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---

-----  
SCOTT 3000

SQL> /

Enter value for v\_empno: 2234

no rows selected

SQL> DECLARE

2 V\_Empno Emp.Empno%TYPE := &Empno;

3 V\_Ename Emp.Ename%TYPE;

4 V\_Sal Emp.Sal%TYPE;

5 BEGIN

6 SELECT Ename, Sal INTO V\_Ename, V\_Sal

7 FROM Emp

8 WHERE Empno = V\_Empno;

9 DBMS\_OUTPUT.PUT\_LINE('Name : '||V\_Ename||' Salary : '||V\_Sal);

10 END;

11 /

Enter value for empno: 2234

DECLARE

\*

ERROR at line 1:

ORA-01403: no data found

ORA-06512: at line 6

SQL> DECLARE

2 V\_Empno Emp.Empno%TYPE := &Empno;

3 V\_Ename Emp.Ename%TYPE;

4 V\_Sal Emp.Sal%TYPE;

5 BEGIN

6 SELECT Ename, Sal INTO V\_Ename, V\_Sal

7 FROM Emp

8 WHERE Empno = V\_Empno;

9 DBMS\_OUTPUT.PUT\_LINE('Name : '||V\_Ename||' Salary : '||V\_Sal);

10 EXCEPTION

11 WHEN NO\_DATA\_FOUND THEN

12 DBMS\_OUTPUT.PUT\_LINE('Sorry, Data is Not Found.');

13 END;

14 /

Enter value for empno: 2234

Sorry, Data is Not Found.

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

---

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```
1 DECLARE
2     V_Empno Emp.Empno%TYPE := &Empno;
3     V_Ename Emp.Ename%TYPE;
4     V_Sal Emp.Sal%TYPE;
5 BEGIN
6     SELECT Ename, Sal INTO V_Ename, V_Sal
7     FROM Emp
8     WHERE Empno = V_Empno;
9     DBMS_OUTPUT.PUT_LINE('Name : '||V_Ename||' Salary : '||V_Sal);
10 EXCEPTION
11 WHEN OTHERS THEN
12 DBMS_OUTPUT.PUT_LINE('Sorry, Data is Not Found.');
```

SQL> /

Enter value for empno: 2234

Sorry, Data is Not Found.

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT *
2 FROM Emp
3* WHERE Sal = &V_Sal
```

SQL> /

Enter value for v\_sal: 5000

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
7839	KING	PRESIDENT		17-NOV-81	5000

SQL> /

Enter value for v\_sal: 3000

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
7902	FORD	ANALYST	7566	03-DEC-81	3000
7788	SCOTT	ANALYST	7566	09-DEC-82	3000

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---

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2      V_Emp Emp%ROWTYPE;
3      V_Sal Emp.Sal%TYPE := &Sal;
4  BEGIN
5      SELECT * INTO V_Emp
6      FROM Emp
7      WHERE Sal = V_Sal;
8      DBMS_OUTPUT.PUT_LINE('Name : '||V_Emp.Ename||' Salary : '||V_Emp.Sal);
9* END ;
```

SQL> /

Enter value for sal: 5000

Name : KING Salary : 5000

PL/SQL procedure successfully completed.

SQL> /

Enter value for sal: 2850

Name : BLAKE Salary : 2850

PL/SQL procedure successfully completed.

SQL> /

Enter value for sal: 3000

DECLARE

\*

ERROR at line 1:

ORA-01422: exact fetch returns more than requested number of rows

ORA-06512: at line 5

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2      V_Emp Emp%ROWTYPE;
3      V_Sal Emp.Sal%TYPE := &Sal;
4  BEGIN
5      SELECT * INTO V_Emp
6      FROM Emp
7      WHERE Sal = V_Sal;
8      DBMS_OUTPUT.PUT_LINE('Name : '||V_Emp.Ename||' Salary : '||V_Emp.Sal);
```

---

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---

```
9    EXCEPTION
10    WHEN TOO_MANY_ROWS THEN
11    DBMS_OUTPUT.PUT_LINE('More Than One Employee Having Same Salary');
12* END ;
SQL> /
Enter value for sal: 5000
Name : KING Salary : 5000
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for sal: 2850
Name : BLAKE Salary : 2850
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for sal: 3000
More Than One Employee Having Same Salary
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for sal: 950
Name : JAMES Salary : 950
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2    V_Emp Emp%ROWTYPE;
3    V_Sal Emp.Sal%TYPE := &Sal;
4  BEGIN
5    SELECT * INTO V_Emp
6    FROM Emp
7    WHERE Sal = V_Sal;
8    DBMS_OUTPUT.PUT_LINE('Name : '||V_Emp.Ename||' Salary :
'||V_Emp.Sal);
9    EXCEPTION
10   WHEN OTHERS THEN
11   DBMS_OUTPUT.PUT_LINE('More Than One Employee Having Same Salary');
12* END ;
SQL> /
Enter value for sal: 3000
More Than One Employee Having Same Salary
```

---

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---

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2      V_Emp Emp%ROWTYPE;
3      V_Sal Emp.Sal%TYPE := &Sal;
4  BEGIN
5      SELECT * INTO V_Emp
6      FROM Emp
7      WHERE Sal = V_Sal;
8      DBMS_OUTPUT.PUT_LINE('Name : '||V_Emp.Ename||' Salary : '||V_Emp.Sal);
9  EXCEPTION
10     WHEN TOO_MANY_ROWS THEN
11         DBMS_OUTPUT.PUT_LINE('More Than One Employee Having Same Salary');
12* END ;
SQL> /
Enter value for sal: 1250
More Than One Employee Having Same Salary
```

PL/SQL procedure successfully completed.

SQL> /

Enter value for sal: 2234

DECLARE

\*

ERROR at line 1:

ORA-01403: no data found

ORA-06512: at line 5

SQL> DECLARE

```
2      V_Emp Emp%ROWTYPE;
3      V_Sal Emp.Sal%TYPE := &Sal;
4  BEGIN
5      SELECT * INTO V_Emp
6      FROM Emp
7      WHERE Sal = V_Sal;
8      DBMS_OUTPUT.PUT_LINE('Name : '||V_Emp.Ename||' Salary : '||V_Emp.Sal);
9  EXCEPTION
10     WHEN NO_DATA_FOUND THEN
11         DBMS_OUTPUT.PUT_LINE('Sorry, Data is Not Found.');
```

```
12     WHEN TOO_MANY_ROWS THEN
```

```
13         DBMS_OUTPUT.PUT_LINE('More Than One Employee Having Same Salary');
```

```
14     END ;
```

---

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---

```
15 /
Enter value for sal: 3000
More Than One Employee Having Same Salary
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for sal: 2234
Sorry, Data is Not Found.
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2      V_Emp Emp%ROWTYPE;
3      V_Sal Emp.Sal%TYPE := &Sal;
4  BEGIN
5      SELECT * INTO V_Emp
6      FROM Emp
7      WHERE Sal = V_Sal;
8      DBMS_OUTPUT.PUT_LINE('Name : '||V_Emp.Ename||' Salary :
'||V_Emp.Sal);
9  EXCEPTION
10     WHEN NO_DATA_FOUND THEN
11         DBMS_OUTPUT.PUT_LINE('Sorry, Data is Not Found.');
```

Oracle By Sathish Yellanki (SKYESS)

```
12     WHEN TOO_MANY_ROWS THEN
13         DBMS_OUTPUT.PUT_LINE('More Than One Employee Having Same Salary');
14     WHEN OTHERS THEN
15         DBMS_OUTPUT.PUT_LINE('Un Handled Abnormality Identified');
16* END ;
SQL> cl scr
```

```
SQL> DECLARE
2      V_Empno VARCHAR2(4) := '&Empno';
3      V_Ename VARCHAR2(20) := '&Ename';
4      V_Deptno VARCHAR2(2) := '&Deptno';
5  BEGIN
6      INSERT INTO Emp(Empno, Ename, Deptno)
7      VALUES(V_Empno, V_Ename, V_Deptno);
8  END ;
```

```
Enter value for empno: 7935
Enter value for ename: SURESH
Enter value for deptno: 30
```

PL/SQL procedure successfully completed.

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
SQL> /
Enter value for empno: 793A
Enter value for ename: RAVI
Enter value for deptno: 30
DECLARE
*
ERROR at line 1:
ORA-01722: invalid number
ORA-06512: at line 6
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2    V_Empno VARCHAR2(4) := '&Empno';
3    V_Ename VARCHAR2(20) := '&Ename';
4    V_Deptno VARCHAR2(2) := '&Deptno';
5  BEGIN
6    INSERT INTO Emp(Empno, Ename, Deptno)
7    VALUES(V_Empno, V_Ename, V_Deptno);
8  EXCEPTION
9    WHEN INVALID_NUMBER THEN
10   DBMS_OUTPUT.PUT_LINE('Given Employee Number or Department Number is
Invalid');
11* END ;
SQL> /
Enter value for empno: 7936
Enter value for ename: RAVI
Enter value for deptno: 30
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for empno: 793A
Enter value for ename: RAJU
Enter value for deptno: 30
Given Employee Number or Department Number is Invalid
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> DECLARE
2    V_Num1 NUMBER;
```

---

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---

```
3 BEGIN
4   V_Num1 := '&GiveNumber1' + '&GiveNumber2';
5   DBMS_OUTPUT.PUT_LINE ('The Result of the Operation is: ' ||
V_Num1);
6 EXCEPTION
7   WHEN INVALID_NUMBER THEN
8     DBMS_OUTPUT.PUT_LINE ('Please Check - There is a Source of
Invalid Values in your input (OR) Operations.');
```

9 END ;

10 /

Enter value for givenumber1: 2234  
Enter value for givenumber2: 3345  
The Result of the Operation is: 5579

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givenumber1: 223A
Enter value for givenumber2: 3345
DECLARE
*
```

ERROR at line 1:  
ORA-06502: PL/SQL: numeric or value error: character to number conversion error  
ORA-06512: at line 4

```
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2   V_Num1 NUMBER;
3 BEGIN
4   V_Num1 := '&GiveNumber1' + '&GiveNumber2';
5   DBMS_OUTPUT.PUT_LINE ('The Result of the Operation is: ' ||
V_Num1);
6 EXCEPTION
7   WHEN VALUE_ERROR THEN
8     DBMS_OUTPUT.PUT_LINE ('Please Check - There is a Source of
Invalid values in your input (OR) Operations.');
```

9\* END ;

```
SQL> /
Enter value for givenumber1: 223A
Enter value for givenumber2: 3345
Please Check - There is a Source of Invalid Values in your input (OR)
Operations.
```

PL/SQL procedure successfully completed.

---

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---

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE

2 V\_Empno Emp.Empno%TYPE := &Empno;

3 V\_Ename Emp.Ename%TYPE := '&Ename';

4 V\_Deptno Emp.Deptno%TYPE := &Deptno;

5 BEGIN

6 INSERT INTO Emp(Empno,Ename,Deptno)

7 VALUES (V\_Empno,V\_Ename,V\_Deptno);

8 DBMS\_OUTPUT.PUT\_LINE('Employee Successfully Inserted');

9 EXCEPTION

10 WHEN DUP\_VAL\_ON\_INDEX THEN

11 DBMS\_OUTPUT.PUT\_LINE('Employee ID Already Exists');

12 END ;

13 /

Enter value for empno: 7935

Enter value for ename: RAVI

Enter value for deptno: 30

Employee Successfully Inserted

PL/SQL procedure successfully completed.

SQL> /

Enter value for empno: 7934

Enter value for ename: RAJU

Enter value for deptno: 30

Employee ID Already Exists

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

1 DECLARE

2 V\_Ename Emp.Ename% TYPE;

---

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---

```
3  V_Sal Emp.Sal%TYPE;
4  V_RowCount PLS_INTEGER := 0;
5  CURSOR EmpRowCount IS
6  SELECT Ename, Sal
7  FROM Emp
8  ORDER BY Ename;
9  BEGIN
10 OPEN EMPROWCOUNT;
11 LOOP
12 FETCH EmpRowCount INTO V_Ename, V_Sal;
13 EXIT WHEN EmpRowCount%NOTFOUND;
14 V_RowCount := EmpRowCount%ROWCOUNT;
15 DBMS_OUTPUT.PUT_LINE('Employee Name is, '||V_Ename||' his Salary
16 is '||V_Sal);
17 END LOOP;
18 OPEN EMPROWCOUNT;
19 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
20 CLOSE EmpRowCount;
21 EXCEPTION
22 WHEN CURSOR_ALREADY_OPEN THEN
23 DBMS_OUTPUT.PUT_LINE('The Requested Cursor is already Open.');
```

SQL> /

```
Employee Name is,ADAMS his Salary
is 1100
Employee Name is,ALLEN his Salary
is 1600
Employee Name is,BLAKE his Salary
is 2850
Employee Name is,CLARK his Salary
is 2450
Employee Name is,FORD his Salary
is 3000
Employee Name is,JAMES his Salary
is 950
Employee Name is,JONES his Salary
is 2975
Employee Name is,KING his Salary
is 5000
Employee Name is,MARTIN his Salary
is 1250
Employee Name is,MILLER his Salary
is 1300
Employee Name is,SCOTT his Salary
is 3000
Employee Name is,SMITH his Salary
is 800
Employee Name is,TURNER his Salary
```

---

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---

```
is 1500
Employee Name is,WARD his Salary
is 1250
The Requested Cursor is already Open.
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2    V_Ename Emp.Ename% TYPE;
3    V_Sal Emp.Sal%TYPE;
4    V_RowCount PLS_INTEGER := 0;
5    CURSOR EmpRowCount IS
6      SELECT Ename, Sal
7      FROM Emp
8      ORDER BY Ename;
9    BEGIN
10   OPEN EMPROWCOUNT;
11   LOOP
12     FETCH EmpRowCount INTO V_Ename, V_Sal;
13     EXIT WHEN EmpRowCount%NOTFOUND;
14     V_RowCount := EmpRowCount%ROWCOUNT;
15     DBMS_OUTPUT.PUT_LINE('Employee Name is,||V_Ename||' his Salary
16 is '||V_Sal);
17   END LOOP;
18   DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
19   CLOSE EmpRowCount;
20   CLOSE EmpRowCount;
21   EXCEPTION
22   WHEN INVALID_CURSOR THEN
23     DBMS_OUTPUT.PUT_LINE('The Requested Cursor is either not open or is
already closed.');
```

```
24* END;
SQL> /
Employee Name is,ADAMS his Salary
is 1100
Employee Name is,ALLEN his Salary
is 1600
Employee Name is,BLAKE his Salary
is 2850
Employee Name is,CLARK his Salary
is 2450
Employee Name is,FORD his Salary
is 3000
```

---

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---

```
Employee Name is,JAMES his Salary
is 950
Employee Name is,JONES his Salary
is 2975
Employee Name is,KING his Salary
is 5000
Employee Name is,MARTIN his Salary
is 1250
Employee Name is,MILLER his Salary
is 1300
Employee Name is,SCOTT his Salary
is 3000
Employee Name is,SMITH his Salary
is 800
Employee Name is,TURNER his Salary
is 1500
Employee Name is,WARD his Salary
is 1250
14 Rows Processed So Far...
The Requested Cursor is either not open or is already closed.
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
2     V_Grade CHAR := UPPER('&EnterGrade');
3 BEGIN
4 CASE V_Grade
5     WHEN 'A' THEN DBMS_OUTPUT.PUT_LINE('You are Awarded with
Excellent Grade');
6     WHEN 'B' THEN DBMS_OUTPUT.PUT_LINE('You are Awarded with Very
Good Grade');
7     WHEN 'C' THEN DBMS_OUTPUT.PUT_LINE('You are Awarded with Good
Grade');
8     WHEN 'D' THEN DBMS_OUTPUT.PUT_LINE('You are Awarded with Fair
Grade');
9     WHEN 'E' THEN DBMS_OUTPUT.PUT_LINE('You are Awarded with Poor
Grade');
10 END CASE;
11 EXCEPTION
12 WHEN CASE_NOT_FOUND THEN
13 DBMS_OUTPUT.PUT_LINE('The Supplied Case '||V_Grade||' not found.
Please Check once again.');
```

```
14 END;
15 /
Enter value for entergrade: J
The Supplied Case J not found. Please Check once again.
```

---

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**Oracle Developer Suite 10g(D2K), Oracle Apps R12, Live Projects in SQL and PL/SQL, Data Modeling, Linux/Unix**

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2   V_Num1 NUMBER := &GiveNumber1;
  3   V_Num2 NUMBER := &GiveNumber2;
  4   V_Result NUMBER;
  5   BEGIN
  6   V_Result := V_Num1/V_Num2;
  7   DBMS_OUTPUT.PUT_LINE ('The Result is: ' || V_Result);
  8   EXCEPTION
  9   WHEN ZERO_DIVIDE THEN
 10   DBMS_OUTPUT.PUT_LINE ('Fatal Error - Division by zero
occurred');
 11 END ;
 12 /
Enter value for givenumber1: 25
Enter value for givenumber2: 4
The Result is: 6.25
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givenumber1: 25
Enter value for givenumber2: 0
Fatal Error - Division by zero occurred
```

PL/SQL procedure successfully completed.

```
SQL> SPOOL OFF
```

---

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